

WEST Search History

DATE: Wednesday, February 16, 2005

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
<i>DB=USPT; PLUR=YES; OP=AND</i>			
<input type="checkbox"/>	L1	premenstrual near2 factor	3
<input type="checkbox"/>	L2	pmf-1 or pmf1	20
<input type="checkbox"/>	L3	lefty-a or leftya	3
<input type="checkbox"/>	L4	(right-left or left-right or leftright or rightleft) near3 (factor or factor-a or factora)	11
<input type="checkbox"/>	L5	L4 not l1 not l3	11
<input type="checkbox"/>	L6	tgfbeta4 or tgf-beta4 or tgf-beta-4	6
<input type="checkbox"/>	L7	transforming near growth near factor near beta near 4	39
<input type="checkbox"/>	L8	transforming near growth near factor near beta-4	0
<input type="checkbox"/>	L9	transforming near growth near factor near beta4	0
<input type="checkbox"/>	L10	tgf-beta near2 (type4 or type-4)	0
<input type="checkbox"/>	L11	tgf-beta	3516
<input type="checkbox"/>	L12	type4 or type-4	112
<input type="checkbox"/>	L13	L12 near4 l11	0
<input type="checkbox"/>	L14	TGF-beta	3516
<input type="checkbox"/>	L15	L14 near2 l11	138
<input type="checkbox"/>	L16	L14 near2 l12	0

END OF SEARCH HISTORY

File 155: MEDLINE(R) 1951-2005/Feb W2
(c) format only 2005 The Dialog Corp.
***File 155: Medline will be reloaded shortly and accession numbers will change.**

Set Items Description
--- -----
?e pmf-1

Ref	Items	Index-term
E1	515	PMF
E2	7	PMF PROTOCOL
E3	0	*PMF-1
E4	1	PMF-100 SOLUTION
E5	11	PMFA
E6	1	PMFBP
E7	1	PMFALPHA1
E8	1	PMFB
E9	2	PMFBH
E10	1	PMFBP1
E11	1	PMFBP1 PROTEIN, MOUSE
E12	1	PMFB1

Enter P or PAGE for more

?s pmf (2n) 1 (2n) gene?

515	PMF
3372533	1
2357164	GENE?

S1 2 PMF (2N) 1 (2N) GENE?

?e premenstrual factor

Ref	Items	RT	Index-term
E1	5		PREMENSTRUACNIM
E2	3766		PREMENSTRUAL
E3	0		*PREMENSTRUAL FACTOR
E4	2484	4	PREMENSTRUAL SYNDROME
E5	198		PREMENSTRUAL SYNDROME --BLOOD --BL
E6	3		PREMENSTRUAL SYNDROME --CEREBROSPINAL FLUID --
E7	28		PREMENSTRUAL SYNDROME --CHEMICALLY INDUCED --C
E8	31		PREMENSTRUAL SYNDROME --CLASSIFICATION --CL
E9	232		PREMENSTRUAL SYNDROME --COMPLICATIONS --CO
E10	523		PREMENSTRUAL SYNDROME --DIAGNOSIS --DI
E11	20		PREMENSTRUAL SYNDROME --DIET THERAPY --DH
E12	766		PREMENSTRUAL SYNDROME --DRUG THERAPY --DT

Enter P or PAGE for more

?s premenstrual (2n) factor?

3766	PREMENSTRUAL
2225770	FACTOR?
S2 56	PREMENSTRUAL (2N) FACTOR?

?s s2 (25n) gene?

56	S2
2357164	GENE?
S3 6	S2 (25N) GENE?

?ds

Set	Items	Description
S1	2	PMF (2N) 1 (2N) GENE?
S2	56	PREMENSTRUAL (2N) FACTOR?
S3	6	S2 (25N) GENE?

?t s1/9/all

1/9/1

DIALOG(R) File 155: MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

14423144 PMID: 10419538

```

>>>Year ranges not supported in one or more files
Processing
Completed processing all files
    49  S15
    41990598  PY=1997 : PY=2005
    S16      44  S15/1997:2005
? s s15 not s16
    49  S15
    44  S16
    S17      5  S15 NOT S16
? s au=jakowlew ? and py=1988 and chicken?
>>>One or more prefixes are unsupported
>>> or undefined in one or more files.
    512 AU=JAKOWLEW ?
    3351249 PY=1988
    547866 CHICKEN?
S18      12 AU=JAKOWLEW ? AND PY=1988 AND CHICKEN?
? ds

Set      Items      Description
S1        4          'TRANSFORMING GROWTH FACTOR BETA4'
S2        23817     E3-E48
S3        19916     TYPE (2N) 4
S4        3          TYPE4
S5        277        S2 AND (S3 OR S4)
S6        192        S2 (10N) (S3 OR S4)
S7        138        S6/1996:2005
S8        54         S6 NOT S7
S9        4          'TGFB4'
S10       4          S9/1997:2005
S11       1          'TGFBETAINF 4'
S12       1          'TGFBETASUPERFAMILY'
S13       26         'TGFBETA4'
S14       21         'TGFB4'
S15       49         S11 OR S12 OR S13 OR S14
S16       44         S15/1997:2005
S17       5          S15 NOT S16
S18       12         AU=JAKOWLEW ? AND PY=1988 AND CHICKEN?
? t s17/6/all

```

Ref Items Index-term
E1 1 TGFA3
E2 1 TGFA44
E3 1123 *TGFB
E4 1 TGFB BINDING PROTEIN
E5 1 TGFB GENE
E6 1 TGFB mRNA TRANSFORMING GROWTH FACTOR-BETA MESS
E7 1 TGFB PROTEINS
E8 1 TGFB RECEPTORS
E9 1 TGFB TARGET GENES TRANSFORMING GROWTH FACTOR-B
E10 4 TGFB TRANSFORMING GROWTH FACTOR BETA
E11 10 TGFB TRANSFORMING GROWTH FACTOR-BETA
E12 1 TGFB-INDUCED

Enter P or PAGE for more

? p

Ref Items Index-term
E13 1 TGFB-MEDIATED
E14 2 TGFB-RECEPTOR
E15 2 TGFB-RESPONSIVE
E16 1 TGFB-RIII
E17 1 TGFB-R1
E18 1 TGFB-SIGNAL
E19 1 TGFB-TREATED
E20 9 TGFB-1
E21 1 TGFB-1 TRANSFORMING GROWTH FACTOR B-1
E22 1 TGFB-1 TRANSFORMING GROWTH FACTOR-BETA-1
E23 1 TGFB-1 TRANSFORMING GROWTH FACTOR-BETA-1 GENE
E24 3 TGFB-2

Enter P or PAGE for more

? p

Ref Items Index-term
E25 3 TGFB-2R
E26 3 TGFB-3
E27 3 TGFB-3R
E28 1 TGFB/G1
E29 5 TGFBA
E30 2 TGFBATA
E31 1 TGFBATTA1
E32 1 TGFBBA1
E33 1 TGFBBETA
E34 1 TGFBBETA1
E35 1 TGFBBR2
E36 4 TGFBE

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? p

Ref Items Index-term
E37 3 TGFBEAT
E38 1 TGFBEATA1
E39 1 TGFBEAT1
E40 3 TGFBEPE
E41 14377 TGFBETA
E42 1 TGFBETA ACTIVATED KINASE TAK1 TRANSFORMING GRO
E43 1 TGFBETA BETA RECEPTOR TYPE II
E44 1 TGFBETA EXPRESSION

E45 2 TGFBETA FAMILY
E46 1 TGFBETA FAMILY SIGNALING
E47 1 TGFBETA GROWTH FACTOR
E48 1 TGFBETA INHIBITOR TUMOR GROWTH FACTOR BETA INH

Enter P or PAGE for more

? p

Ref Items Index-term
E49 1 TGFBETA ISOFORMS
E50 8 TGFBETA RECEPTOR

? p

Ref Items Index-term
E1 8 TGFBETA RECEPTOR
E2 1 TGFBETA RECEPTOR I
E3 1 TGFBETA RECEPTOR II
E4 11 TGFBETA RECEPTORS
E5 4 TGFBETA SIGNAL TRANSDUCTION
E6 11 TGFBETA SIGNALING
E7 2 TGFBETA SIGNALING PATHWAY
E8 6 TGFBETA SIGNALLING
E9 1 TGFBETA SIGNALS
E10 1 TGFBETA STEROID RECEPTORS
E11 6 TGFBETA SUPERFAMILY
E12 1 TGFBETA TRANSFORMING GROWTH FACTOR BETA

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? p

Ref Items Index-term
E13 1 TGFBETA TRANSFORMING GROWTH FACTOR BETA TRANSF
E14 2 TGFBETA TYPE I RECEPTOR
E15 3 TGFBETA TYPE II RECEPTOR
E16 1 TGFBETA TYPE II RECEPTOR PROMOTER
E17 1 TGFBETA TYPE II RECEPTOR SIGNALING
E18 1 TGFBETA VARIANTS
E19 2 TGFBETA(TRANSFORMING GROWTH FACTOR BETA)
E20 1 TGFBETA)
E21 1 TGFBETA- 1
E22 2 TGFBETA-DEPENDENT
E23 1 TGFBETA-IIR
E24 1 TGFBETA-INDEPENDENT

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? p

Ref Items Index-term
E25 2 TGFBETA-INDUCED
E26 2 TGFBETA-INDUCIBLE GENE H3(BETAIG-H3)
E27 1 TGFBETA-PATHWAY
E28 1 TGFBETA-RECEPTOR INTERACTING PROTEIN-1
E29 3 TGFBETA-RII
E30 1 TGFBETA-RII CELL LINE (HOMINIDAE)
E31 1 TGFBETA-SIGNALING
E32 1 TGFBETA-SIGNALLING
E33 2 TGFBETA-SUPERFAMILY
E34 1 TGFBETA-TREATED
E35 6 TGFBETA-1
E36 1 TGFBETA-1 LASER MICRODISSECTION

Enter P or PAGE for more

? p

Ref	Items	Index-term
E37	1	TGFBETA-1 TRANSFORMING GROWTH FACTOR BETA-1
E38	2	TGFBETA-2
E39	1	TGFBETA-3
E40	2	TGFBETA, TRANSFORMING GROWTH FACTOR BETA
E41	1	TGFBETA, TRANSFORMING GROWTH FACTOR-BETA
E42	2	TGFBETAA
E43	1	TGFBETAAND
E44	3	TGFBETABETA1
E45	2	TGFBETAB2
E46	1	TGFBETACALCITROIL
E47	11	TGFBETAC10
E48	11	TGFBETAC25

Enter P or PAGE for more

? p

Ref	Items	Index-term
E49	1	TGFBETAFNSHOWED
E50	1	TGFBETAFNSKELETAL

? p

Ref	Items	Index-term
E1	1	TGFBETAFNSKELETAL
E2	1	TGFBETAFNTREATMENT
E3	30	TGFBETAI
E4	1	TGFBETAIIGH3
E5	20	TGFBETAIII
E6	1	TGFBETAIIII
E7	38	TGFBETAIIR
E8	1	TGFBETAIN
E9	430	TGFBETAINF
E10	12	TGFBETAINF 1
E11	1	TGFBETAINF 3
E12	1	TGFBETAINF 4

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? s e12

S11 1 'TGFBETAINF 4'

? p

Ref	Items	Index-term
E13	7	TGFBETAIR
E14	1	TGFBETAIISOFORMS
E15	15	TGFBETAL
E16	1	TGFBETAMU
E17	1	TGFBETAOVER
E18	3	TGFBETAP
E19	2	TGFBETAPRII
E20	112	TGFBETAR
E21	1	TGFBETAR II (A)10
E22	1	TGFBETAR II (GT)3
E23	7	TGFBETARE
E24	1	TGFBETARECEPTER

Enter P or PAGE for more

? p

Ref	Items	Index-term
E25	2	TGFBETARECEPTOR
E26	1	TGFBETARECEPTORS
E27	1	TGFBETARES
E28	114	TGFBETARI
E29	588	TGFBETARI
E30	1	TGFBETARI FRAMESHIFT MUTATION
E31	5	TGFBETARIIDELTAKD
E32	16	TGFBETARI
E33	7	TGFBETARS
E34	12	TGFBETAR1
E35	4	TGFBETAR11
E36	29	TGFBETAR2

Enter P or PAGE for more

? p

Ref	Items	Index-term
E37	10	TGFBETAR3
E38	431	TGFBETAS
E39	1	TGFBETASIGNALING
E40	1	TGFBETASL
E41	3	TGFBETASR
E42	8	TGFBETASRII
E43	179	TGFBETASUB1
E44	1	TGFBETASUB1STIMULATED
E45	39	TGFBETASUB2
E46	1	TGFBETASUB2TGFBETASUB2
E47	15	TGFBETASUB3
E48	4	TGFBETASUP

Enter P or PAGE for more

? p

Ref	Items	Index-term
E49	1	TGFBETASUPERFAMILY
E50	1	TGFBETASUPPRESSED

? s e49
S12 1 'TGFBETASUPERFAMILY'

? p

Ref	Items	Index-term
E1	1	TGFBETASUPPRESSED
E2	3	TGFBETASUP1
E3	4	TGFBETAS1
E4	1	TGFBETATGFBETA
E5	1	TGFBETATO
E6	7165	TGFBETA1
E7	1	TGFBETA1 - TRANSFORMING GROWTH FACTOR BETA
E8	1	TGFBETA1 DIFFERENTIATION
E9	1	TGFBETA1 mRNA
E10	1	TGFBETA1 OVEREXPRESSION
E11	1	TGFBETA1 RECEPTORS
E12	1	TGFBETA1-ACTIVATED

Enter P or PAGE for more

? p

Ref	Items	Index-term
E13	1	TGFBETA1ALPHAMP
E14	1	TGFBETA1ANGIOTENSINII
E15	1	TGFBETA1AVAILABILITY
E16	1	TGFBETA1CDNA
E17	1	TGFBETA1DURING
E18	1	TGFBETA1GENE
E19	1	TGFBETA1KIDNEY
E20	1	TGFBETA1L
E21	2	TGFBETA1LAP
E22	4	TGFBETA1MRNA
E23	2	TGFBETA1POSITIVE
E24	1	TGFBETA1PRODUCING

Enter P or PAGE for more

? p

Ref	Items	Index-term
E25	11	TGFBETA1R
E26	1	TGFBETA1REQUIRE
E27	7	TGFBETA1RI
E28	6	TGFBETA1RII
E29	6	TGFBETA1SUP
E30	2	TGFBETA1SUPS223
E31	2	TGFBETA1SUPWT
E32	1	TGFBETA1SUP32
E33	1	TGFBETA1TRANSGENE
E34	1	TGFBETA1WERE
E35	1357	TGFBETA2
E36	1	TGFBETA2, IL-1

Enter P or PAGE for more

? p

Ref	Items	Index-term
E37	1	TGFBETA2HUMAN
E38	5	TGFBETA2R
E39	14	TGFBETA2SUP
E40	896	TGFBETA3
E41	1	TGFBETA3-ELISA
E42	1	TGFBETA3R
E43	1	TGFBETA3RII
E44	10	TGFBETA3SUP
E45	26	TGFBETA4
E46	14	TGFBETA5
E47	2	TGFBETE
E48	1	TGFBETGA1

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? ps e45

>>>Unrecognizable Command

? s e45

S13 26 'TGFBETA4'

? p

Ref	Items	Index-term
E49	1	TGFBGR
E50	322	TGFBI

? p

Ref	Items	Index-term
E1	322	TGFBI
E2	1	TGFBI (BETA IG-H3) GENE
E3	1	TGFBI (BIGH3) GENE
E4	4	TGFBI BIGH3 GENE
E5	15	TGFBI GENE
E6	1	TGFBI TRANSFORMING GROWTH FACTOR-BETA-1
E7	1	TGFBI(BIGH3) GENE
E8	1	TGFBI-INDUCED
E9	2	TGFBIGENE
E10	9	TGFBI
E11	1	TGFBI
E12	6	TGFBIIR

Enter P or PAGE for more

? p

Ref	Items	Index-term
E13	44	TGFBIIR
E14	1	TGFBIIR GENE
E15	1	TGFBINDUCES
E16	7	TGFBINF
E17	1	TGFBIN3
E18	18	TGFBIP
E19	7	TGFBKM2
E20	2	TGFBKM2SUP129
E21	2	TGFBKM2129
E22	10	TGFBL
E23	6	TGFBM1
E24	5	TGFBM3

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Ref	Items	Index-term
E25	25	TGFBP
E26	1	TGFBP-3
E27	2	TGFBPS
E28	1	TGFBP1
E29	1	TGFBP3
E30	1	TGFBP4
E31	1	TGFBP5
E32	19	TGFBR
E33	1	TGFBR-SMAD
E34	1	TGFBR-SMAD SUPERFAMILY
E35	9	TGFBRAP1
E36	9	TGFBRAP1 PROTEIN, HUMAN

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Ref	Items	Index-term
E37	18	TGFBR1
E38	105	TGFBR1I
E39	1	TGFBR1I GENE
E40	1	TGFBR1I GENE TRANSFORMING GROWTH FACTOR-BETA R
E41	3	TGFBR1L
E42	2	TGFBR1LOXP
E43	6	TGFBR1R1
E44	6	TGFBR2

E45 1 TGFBR5
E46 2 TGFBR7A
E47 127 TGFBR1
E48 1 TGFBR1 GENE

Enter P or PAGE for more

? p

Ref Items Index-term
E49 1 TGFBR1 KINASE
E50 1 TGFBR1 TRANSFORMING GROWTH FACTOR, BETA RECEPT
? p

Ref Items Index-term
E1 1 TGFBR1 TRANSFORMING GROWTH FACTOR, BETA RECEPT
E2 2 TGFBR1-ASTERISK-6A
E3 1 TGFBR1-6A ALLELE
E4 1 TGFBR16A
E5 383 TGFBR2
E6 8 TGFBR2 GENE
E7 1 TGFBR2 GENE TYPE II TRANSFORMING GROWTH FACTOR
E8 6 TGFBR2 PROTEIN, HUMAN
E9 2 TGFBR2-RESTORED
E10 1 TGFBR2FLOXE2
E11 2 TGFBR2FLX
E12 4 TGFBR2FSPKO

Enter P or PAGE for more

? p

Ref Items Index-term
E13 1 TGFBR2HEPKO
E14 1 TGFBR2L
E15 2 TGFBR2LOXP
E16 1 TGFBR2MGKO
E17 2 TGFBR2SUP
E18 2 TGFBR2SUPFLX
E19 2 TGFBR2SUPFSPKO
E20 2 TGFBR2SUPLOXP
E21 61 TGFBR3
E22 30 TGFBS
E23 1 TGFBSTA
E24 1 TGFBSUB3

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? p

Ref Items Index-term
E25 2 TGFBSUP
E26 1 TGFBV1
E27 1024 TGFB1
E28 7 TGFB1 GENE
E29 1 TGFB1 GENE HUMAN TRANSFORMING GROWTH FACTOR-B1
E30 1 TGFB1 KERATO-EPITHELIN TRANSFORMING GROWTH FAC
E31 1 TGFB1 KNOCKOUT
E32 2 TGFB1 mRNA TRANSFORMING GROWTH FACTOR-BETA-1 M
E33 1 TGFB1 RECEPTOR I
E34 1 TGFB1 RECEPTOR II
E35 1 TGFB1 TRANSFORMING GROWTH FACTOR BETA 1
E36 1 TGFB1 TRANSFORMING GROWTH FACTOR BETA-1

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Ref	Items	Index-term
E37	1	TGFB1 TRANSFORMING GROWTH FACTOR-BETA 1
E38	3	TGFB1 TRANSFORMING GROWTH FACTOR-BETA-1
E39	1	TGFB1-INDUCED
E40	1	TGFB1-NEGATIVE-NEGATIVE MOUSE
E41	1	TGFB1AND
E42	1	TGFB1IL
E43	1	TGFB1IR
E44	48	TGFB1II
E45	31	TGFB1II PROTEIN, HUMAN
E46	24	TGFB1II PROTEIN, MOUSE
E47	7	TGFB1II PROTEIN, RAT
E48	29	TGFB1I4

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Ref	Items	Index-term
E49	20	TGFB1I4 PROTEIN, HUMAN
E50	12	TGFB1I4 PROTEIN, MOUSE

? p

Ref	Items	Index-term
E1	12	TGFB1I4 PROTEIN, MOUSE
E2	3	TGFB1I4 PROTEIN, RAT
E3	1	TGFB1LL
E4	2	TGFB1RII
E5	10	TGFB1SUP
E6	1	TGFB10
E7	1	TGFB1II
E8	687	TGFB2
E9	1	TGFB2 GENE
E10	1	TGFB2,3
E11	1	TGFB2R
E12	4	TGFB2SUP

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Ref	Items	Index-term
E13	1	TGFB25
E14	261	TGFB3
E15	3	TGFB3 GENE
E16	1	TGFB3 GENE TRANSFORMING GROWTH FACTOR BETA 3 G
E17	1	TGFB3 KNOCKOUT
E18	1	TGFB3 mRNA TRANSFORMING GROWTH FACTOR-BETA-3 M
E19	1	TGFB3 TRANSFORMING GROWTH FACTOR B3
E20	1	TGFB3 TRANSFORMING GROWTH FACTOR-BETA-3
E21	1	TGFB3 TUMOR GROWTH FACTOR-BETA-3
E22	1	TGFB3/MSX1 MARKERS
E23	1	TGFB3VARIANT
E24	21	TGFB4

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? s e24

S14 21 'TGFB4'

? p

Ref	Items	Index-term
E25	1	TGFB47
E26	1	TGFB5
E27	8	TGFC
E28	1	TGFCARS
E29	1	TGFCDIA
E30	1	TGFCCYS
E31	1	TGFCYSSUP33SER
E32	1	TGFCYS33
E33	2	TGFCYS33SER
E34	11	TGFD
E35	7	TGFDE
E36	1	TGFDELTA

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? p

Ref	Items	Index-term
E37	3	TGFDIAM
E38	66	TGFE
E39	1	TGFEALPHA
E40	2	TGFEBETA1
E41	3	TGFEM
E42	3	TGFET
E43	1	TGFETA1
E44	1	TGFETS
E45	1	TGFE1
E46	21	TGFF
E47	1	TGFFALPHAASE
E48	1	TGFFAR

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Ref	Items	Index-term
E49	1	TGFFAR-II
E50	3	TGFFBETA

? p

Ref	Items	Index-term
E1	3	TGFFBETA
E2	1	TGFFBETA1
E3	1	TGFFB1
E4	1	TGFFI
E5	2	TGFFL
E6	7	TGFF3
E7	11	TGFG
E8	4	TGFGAMMA
E9	6	TGFGAMMA2
E10	1	TGFBETA1
E11	5	TGFGF
E12	6	TGFGF2

Enter P or PAGE for more

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Ref	Items	Index-term
-----	-------	------------

E13 1 TGFH
E14 1 TGFHI
E15 1 TGFH9011
E16 19 TGFI
E17 3 TGFIBETA
E18 1 TGFIBETA SUPERFAMILY
E19 1 TGFIGB
E20 1 TGFII
E21 2 TGFIIIB
E22 1 TGFIIIB-MEDIATED
E23 1 TGFIIH
E24 1 TGFIIIR

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Set	Items	Description
S1	4	'TRANSFORMING GROWTH FACTOR BETA4'
S2	23817	E3-E48
S3	19916	TYPE (2N) 4
S4	3	TYPE4
S5	277	S2 AND (S3 OR S4)
S6	192	S2 (10N) (S3 OR S4)
S7	138	S6/1996:2005
S8	54	S6 NOT S7
S9	4	'TGFB4'
S10	4	S9/1997:2005
S11	1	'TGFBETAINF 4'
S12	1	'TGFBETASUPERFAMILY'
S13	26	'TGFBETA4'
S14	21	'TGFB4'
? s s11 or s12 or s13 or s14		
	1	S11
	1	S12
	26	S13
	21	S14
S15	49	S11 OR S12 OR S13 OR S14

? ds

Set	Items	Description
S1	4	'TRANSFORMING GROWTH FACTOR BETA4'
S2	23817	E3-E48
S3	19916	TYPE (2N) 4
S4	3	TYPE4
S5	277	S2 AND (S3 OR S4)
S6	192	S2 (10N) (S3 OR S4)
S7	138	S6/1996:2005
S8	54	S6 NOT S7
S9	4	'TGFB4'
S10	4	S9/1997:2005
S11	1	'TGFBETAINF 4'
S12	1	'TGFBETASUPERFAMILY'
S13	26	'TGFBETA4'
S14	21	'TGFB4'
S15	49	S11 OR S12 OR S13 OR S14

? s s15/1997:2005

Processing

Processed 10 of 26 files ...

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Entry information

Entry name	TGFB1_CHICK
Primary accession number	P09531
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 10, March 1989
Sequence was last modified in	Release 34, October 1996
Annotations were last modified in	Release 46, February 2005

Name and origin of the protein

Protein name	Transforming growth factor beta 1 [Precursor] [Fragment]
Synonyms	TGF-beta 1 TGF-beta 4
Gene name	Name: TGFB1
From	Gallus gallus (Chicken) [TaxID: 9031]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae; Gallus.

References

[1] NUCLEOTIDE SEQUENCE.

STRAIN=White leghorn;
MEDLINE=89112198;**PubMed**=2464131 [[NCBI](#), [ExPASy](#), [EBI](#), Israel, Japan]
 Jakowlew S.B., Dillard P.J., Sporn M.B., Roberts A.B.;
 "Complementary deoxyribonucleic acid cloning of a messenger ribonucleic acid encoding transforming growth factor beta 4 from chicken embryo chondrocytes.";
 Mol. Endocrinol. 2:1186-1195(1988).

[2] SEQUENCE REVISION.

DOI=10.1210/me.6.6.989;**MEDLINE**=92357039;**PubMed**=1353860 [[NCBI](#), [ExPASy](#), [EBI](#), Israel, Japan]
 Burt D.W., Jakowlew S.B.;
 "Correction: a new interpretation of a chicken transforming growth factor-beta 4 complementary DNA.";

Mol. Endocrinol. 6:989-992(1992).

Comments

- **FUNCTION:** TGF-beta is a multifunctional peptide that control proliferation, differentiation, and other functions in many cell types. Many cells synthesize TGF-beta and essentially all of them have specific receptors for this peptide. TGF-beta regulates the actions of many other peptide growth factors and determines a positive or negative direction of their effects. Play an important role in bone remodelling. It is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts (*By similarity*).
- **SUBUNIT:** The inactive form consists of a TGF-beta 1 homodimer non-covalently linked to a latency-associated peptide (LAP) homodimer. The inactive complex can contain a latent TGF-beta binding protein. The active form is a homodimer of mature TGF-beta 1; disulfide-linked (*By similarity*).
- **SUBCELLULAR LOCATION:** Secreted.
- **PTM:** Glycosylated. The precursor is cleaved into mature TGF-beta 1 and LAP (*By similarity*).
- **SIMILARITY:** Belongs to the TGF-beta family.

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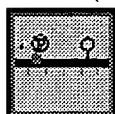
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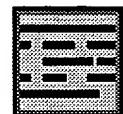
EMBL	M31160; AAB05637.1; -. [EMBL / GenBank / DDBJ] [CoDingSequence]	
PIR	A41918; A41918.	
HSSP	P01137; 1KLA. [HSSP ENTRY / PDB] IPR003911; TGF_TGFb. IPR001839; TGFb. IPR001111; TGFb_N. Graphical view of domain structure.	
InterPro	PF00019; TGF_beta; 1. PF00688; TGFb_propeptide; 1. Pfam graphical view of domain structure.	
Pfam	PR01423; TGFBETA.	
PRINTS	PD000357; TGFb; 1. [Domain structure / List of seq. sharing at least 1 domain]	
ProDom	SM00204; TGFB; 1.	
SMART	PS00250; TGF_BETA_1; 1.	
PROSITE	[Family / Alignment / Tree]	
HOVERGEN	BLOCKS	P09531.
BLOCKS	ProtoNet	P09531.
ProtoNet	ProtoMap	P09531.
ProtoMap	PRESAGE	P09531.
PRESAGE	DIP	P09531.
DIP	ModBase	P09531.
ModBase	SMR	P09531; 9903F3479C8552E5.
SMR	SWISS-2DPAGE	Get region on 2D PAGE.
SWISS-2DPAGE	UniRef	View cluster of proteins with at least 50% / 90% identity.

Keywords

Glycoprotein; Growth factor; Mitogen; Signal.



Feature table viewer



Feature aligner

Key	From	To	Length	Description
NON_TER	1	1		
SIGNAL	<1	1	>1	Potential.
PROPEP	2	259	258	Potential.
CHAIN	260	373	114	Transforming growth factor beta 1.
DISULFID	266	277		By similarity.
DISULFID	276	339		By similarity.
DISULFID	305	370		By similarity.
DISULFID	309	372		By similarity.
DISULFID	338	338		Interchain (By similarity).
CARBOHYD	54	54		N-linked (GlcNAc...) (By similarity).
CARBOHYD	109	109		N-linked (GlcNAc...) (By similarity).
CARBOHYD	153	153		N-linked (GlcNAc...) (By similarity).
SITE	223	225	3	Cell attachment site (Potential).

Sequence information

Length: 373 AA [This is the length of the partial sequence of the unprocessed precursor]

Molecular weight: 42635 Da [This is the MW of the partial sequence of the unprocessed precursor]

CRC64: 9903F3479C8552E5 [This is a checksum on the sequence]

10	20	30	40	50	60
ALSTCQRLLDL	EAAKKKRIEA	VRGQILSKLR	LTAPPPASET	PPRPLPDDVR	ALYNSTQELL

70	80	90	100	110	120
KQRARLRRPPP	DGPDEYWAKE	LRRIPMETTW	DGAMEHWQPQ	SHSIFFVFNV	SRARRGGRPT

130	140	150	160	170	180
LLHRAELRML	RQKAAADSAG	TEQRLELYQG	YGNASWRYLH	GRSVRATADD	EWLSFDVTDA

190	200	210	220	230	240
VHQWLSGSEL	LGVFKLSVHC	PCEMGPGLAE	EMRISIEGFE	QQRGDMQSIA	KKHRRVPYVL

250	260	270	280	290	300
AMALPAERAN	ELHSARRRRD	LDTDYCFGPG	TDEKNCCVRP	LYIDFRKDLQ	WKWIHEPKGY

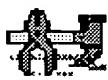
310	320	330	340	350	360
MANFCMGPCP	YIWSADTQYT	KVLALYNQHN	PGASAAPCCV	PQTLDPLPII	YYVGRNVRVE

370					
QLSNMVVRAC	KCS				

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BLAST ExPASy/SIB
 or at NCBI (USA)



Sequence analysis tools: ProtParam, ProtScale,
 Compute pI/Mw, PeptideMass, PeptideCutter,
 Dotlet (Java)



ScanProsite, MotifScan



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of infertile patients, the ebaF mRNA was detectable in the endometria of women on the post-ovulatory days 6-10 (Figure 2). The mRNA detected was primarily the 2.1 kb species. Additional smaller bands were also detected in a smaller 5 number of patients (Figure 2). A high incidence of dysregulated ebaF mRNA expression, however, was identified in women with endometriosis and with unexplained infertility (Table 3, Figure 2).

In contrast, endometrium obtained a normal fertile 10 woman (egg donor) during the implantation window, exhibited a low level of ebaF mRNA expression (Figure 2, lane 21).

To localize ebaF protein in endometrial samples and samples of bodily fluids for similar purposes, the invention provides methods whereby polyclonal antisera is 15 raised against ebaF or a synthetic peptide provided by the invention, CASDGALVPRRLQHRP-amide (SEQ ID NO:3). The antisera preferably are pooled and affinity purified on a column with the peptide bound. Similarly monoclonal antibodies could be used as is well known in the art.

20 Various forms of ebaF protein in endometrial samples, endometrial fluid and serum during the menstrual cycle can be detected. The size of the ebaF precursor protein is 41 kD. However, ebaF protein contains three RXXR cleavage sites which conform to the minimal requirement for 25 efficient processing by Furin, a ubiquitous prototypical mammalian kexin/subtilisin-like endoproteinase involved in the proteolytic processing of a variety of proteins including those within the ebaF super family. If all these sites are cleaved, then products of the molecular weights 30 of 32.3, 25.7 and 12 kD proteins are expected to be secreted (Table 2). To detect such proteins in endometrial samples, fluids and serum the CASDGALVPRRLQHRP-amide antisera is used. In endometrial samples the antisera detects ebaF bands at 55/60, 41, 31, 25 kD by Western blot

throughout the menstrual cycle days 3, 11, 18 and 25 and the first day of menstrual bleeding (D1); on the first day of menstrual bleeding, the saliva as was as urine was also obtained, the extracted proteins were subjected to protein gel electrophoresis; the proteins on the gel were transferred to a Nitrocellulose membrane and stained with the antibody to ebaF; the 31 kD of the ebaF protein is found on the first day of menstruation in the blood, saliva and urine.

10

DETAILED DESCRIPTION OF THE INVENTION

According to the present invention, methods and reagents for the diagnosis of female infertility, prognostic indicators for female infertility, compounds for the treatment of female infertility, and compounds and methods for contraception are provided. The methods and compounds are based on the role of ebaF in endometrial tissue. Provided are methods for diagnosing endometrial receptivity and bleeding functions by screening a biological sample such as an endometrial tissue sample, or bodily fluid for the presence of ebaF. A contraceptive compound containing an effective amount of ebaF and a pharmaceutically acceptable carrier is also provided. Additionally, a diagnostic kit for timing conception is provided, containing reagents for screening a sample for the presence of ebaF. Also provided is a method of treating endometrial irregularities by down-regulating the expression of Endometrial Bleeding Associated Factor (ebaF), previously known as Premenstrual Factor expressed by the pmf-1 gene. EbaF also referred to at one time as TGF- β 4 due to the similarity in sequence however it has subsequently been distinguished from TGF- β 4.

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Entry information

Entry name	TGFB1_HORSE
Primary accession number	O19011
Secondary accession numbers	None
Entered in Swiss-Prot in	Release 36, July 1998
Sequence was last modified in	Release 36, July 1998
Annotations were last modified in	Release 46, February 2005

Name and origin of the protein

Protein name	Transforming growth factor beta 1 [Precursor]
Synonym	TGF-beta 1
Gene name	Name: TGFB1
From	Equus caballus (Horse) [TaxID: 9796]
Taxonomy	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Perissodactyla; Equidae; Equus.

References

[1] NUCLEOTIDE SEQUENCE.

TISSUE=Lymph node;
 MEDLINE=98185507;PubMed=9524819 [NCBI, ExPASy, EBI, Israel, Japan]
 Penha-Goncalves M.N., Onions D.E., Nicolson L.;
 "Cloning and sequencing of equine transforming growth factor-beta 1 (TGF beta-1) cDNA. ";
 DNA Seq. 7:375-378(1997).

Comments

- **FUNCTION:** TGF-beta is a multifunctional peptide that control proliferation, differentiation, and other functions in many cell types. Many cells synthesize TGF-beta and essentially all of them have specific receptors for this peptide. TGF-beta regulates the actions of many other peptide growth factors and determines positive or negative direction of their effects. Play an important role in bone remodelling. It is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts (*By similarity*).
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binding protein. The active form is a homodimer of mature TGF-beta 1; disulfide-linked (*By similarity*).

- **SUBCELLULAR LOCATION:** Secreted.
- **PTM:** Glycosylated. The precursor is cleaved into mature TGF-beta 1 and LAP (*By similarity*).
- **SIMILARITY:** Belongs to the TGF-beta family.

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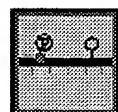
Cross-references

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HSSP	P01137; 1KLA. [HSSP ENTRY / PDB]
	IPR002400; GF_cysknot.
	IPR003911; TGF_TGFb.
InterPro	IPR001839; TGFb.
	IPR001111; TGFb_N.
	Graphical view of domain structure.
	PF00019; TGF_beta; 1.
Pfam	PF00688; TGFb_propeptide; 1.
	Pfam graphical view of domain structure.
PRINTS	PR00438; GFCYSKNOT.
	PR01423; TGFBETA.
ProDom	PD000357; TGFb; 1. [Domain structure / List of seq. sharing at least 1 domain]
SMART	SM00204; TGFB; 1.
PROSITE	PS00250; TGF_BETA_1; 1.
HOVERGEN	[Family / Alignment / Tree]
BLOCKS	O19011.
ProtoNet	O19011.
ProtoMap	O19011.
PRESAGE	O19011.
DIP	O19011.
ModBase	O19011.
SMR	O19011; A86D715F44549691.
SWISS-2DPAGE	Get region on 2D PAGE.
UniRef	View cluster of proteins with at least 50% / 90% identity.

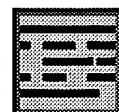
Keywords

Glycoprotein; Growth factor; Mitogen; Signal.

Features



Feature table viewer



Feature aligner

Key	From	To	Length	Description
SIGNAL	1	29	29	<i>By similarity</i> .
PROPEP	30	278	249	Latency-associated peptide (<i>By similarity</i>).
CHAIN	279	390	112	Transforming growth factor beta 1.

DISULFID	285	294	<i>By similarity.</i>
DISULFID	293	356	<i>By similarity.</i>
DISULFID	322	387	<i>By similarity.</i>
DISULFID	326	389	<i>By similarity.</i>
DISULFID	355	355	<i>Interchain (By similarity).</i>
CARBOHYD	82	82	N-linked (GlcNAc...) (<i>By similarity</i>).
CARBOHYD	136	136	N-linked (GlcNAc...) (<i>By similarity</i>).
CARBOHYD	176	176	N-linked (GlcNAc...) (<i>By similarity</i>).

Sequence information

Length: **390 AA** [This is the length of the unprocessed precursor]

Molecular weight: **43975 Da**
[This is the MW of the unprocessed precursor]

CRC64: **A86D715F44549691** [This is a checksum on the sequence]

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70	80	90	100	110	120
SPPSQGEVPP GPLPEAVLAL YNSTRAQVAG <u>ESAETEPEPE</u> <u>ADYYAKEVTR</u> VLM <u>VEKENEI</u>					
130	140	150	160	170	180
YKTVETGSHS IYMFFNTSEL RAAVPDPMLL SRAELRLRL KLSVEQHVEL <u>YOKYSNNSWR</u>					
190	200	210	220	230	240
YLSNRLLTPS DSPEWLSFDV TGVVROWLSQ GGAMEGFRRLS AHCSCKDSKDN TLRVGINGFS					
250	260	270	280	290	300
SSRRGDLATI DGMNRPFLLL MATPLERAQQ LHSSRHRRAL DTNYCFSSTE KNCCVRQLYI					
310	320	330	340	350	360
DFRKDLGWKW IHEPKGYHAN FCLGPCPYIW SLDTQYSKVL ALYNQHNPAGA SAAPCCVPQV					
370	380	390			
LEPLPIVYYV GRKPKVEQLS NMIVRSCKCS					

conserved sequence

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